

This listing of Claims will replace all prior versions, and listings, of Claims in the Application:

Listing of Claims:

1. (currently amended) Phase-locked loop circuit comprising:

a voltage-controlled oscillator which includes at least one resonator circuit for driving the oscillator;

a phase-locked loop including frequency control means for controlling the output frequency of said oscillator, such that during operation said resonator circuit runs at a resonator frequency to drive said oscillator at an oscillator output frequency which is an integer multiple greater than one of the resonator frequency;

wherein the resonator frequency is coupled to the frequency control means of the phase-locked loop, ~~in that~~ and wherein the resonator circuit includes at least one adjustable component to control the resonator frequency, ~~and in that the phase-locked loop frequency control means are coupled to the resonator circuit for controlling the resonator frequency.~~

2. (original). Phase-locked loop circuit according to claim 1, wherein the voltage-controlled oscillator comprises a push-pull circuit whose operating frequency is determined by a pair of resonator circuits and in that the frequency control means are coupled into at least one of said pair of resonator circuits.

3. (currently amended). Phase-locked loop circuit according to claim 2, wherein the push-pull circuit comprises a pair of substantially identical active devices being coupled to said resonator circuits, and in that the frequency control means comprise a phase detector which is capable of generating a an output signal which is fed back to the resonator circuits to control said active devices.

4. (original). Phase-locked loop circuit according to claim 3, wherein the active devices are field effect transistors.

5. (original). Phase-locked loop circuit according to claim 3, wherein the resonator circuits comprise LC-circuits with at least one variable capacitor in said LC-circuits being controlled by the frequency control means.

6. (currently amended). Phase-locked loop circuit according to claim 5, wherein the LC-circuits ~~comprises~~ comprise at least two variable capacitors each.

7. (original). Phase-locked loop circuit according to claim 3, wherein the active devices are each coupled in series with an inductor.

8. (original). Phase-locked loop circuit according to claim 2, wherein the resonator circuits are connected to a fixed potential via a load resistor.

9. (original). Phase-locked loop circuit according to claim 1, wherein the voltage-controlled oscillator comprises integrated components being integrated in a single semiconductor body.